

DRAFT Outline Workshop Agenda

Workshop on Delta Outflows and Other Non-Flow Related Factors

The following is a general proposal for the content to be presented during each session of the public workshop. A single bullet should not be construed to prescribe the title of a single presentation, but rather to represent a set of presentations on related topics. Time will be provided for the panel to ask questions of presenters following each presentation and at the end of each day. Opportunities for public comment will also be provided on all days of the workshop.

Day 1

Morning Session

- Welcoming Remarks by Delta Science Program
 - Regulatory History and Context – Consider Holly Doremus and/or Dan Tarlock to provide a summary of the CWA regulatory history in SF Estuary. These authors wrote a nice summary in *Can the Clean Water Act Succeed as an Ecosystem Protection Law?* JOURNAL OF ENERGY & ENVIRONMENTAL LAW Summer 2013 (a pre-publication copy is attached, not sure when it is due to be published. I heard “fall” 2013).
- Delta Outflow in the Context of Multiple Stressors
 - Background documents for this presentation/discussion could include: DSC ISB 2010 Stressor Prioritization Exercise; 2012 NAS NRC Report on California Sustainable Water and Environmental Management in the California Bay-Delta (specifically CH 3: Stressors: Environmental Factors and Their Effects on the Bay Delta Ecosystem), Multiple Stressor reports released in 2013 by PPIC – Stress Relief and Aquatic Ecosystem Stressors in the Sacramento-San Joaquin Delta.
 - This presentation could be: a summary of multiple stressors, describe the different perspectives regarding the relevance of the stressors, and focus the workshop on flow and why it is focused on flow. Then it could briefly identify the connections between flow and the groups of other major/multiple stressors.
- Biological Objectives and Indicators I put some ideas for presentation topics below.
 - Introductory presentation could review the existing biological objectives and indicators that are being used in the regulatory framework that is designed to restore and protect aquatic life in the SF Estuary. Examples of existing biological objectives include:
 - Salmon doubling goal objective (Bay-Delta WQCP).

- Quantitative biological goals in ESA Recovery Plans
- Quantitative biological targets/goals in ESA Biological Opinions
- Aquatic life beneficial uses (narrative objectives)
- Second presentation: One idea is to focus on how regulatory objectives and indicators are derived from ecosystem science objectives and indicators. We could ID the difference between regulatory objectives and indicators and ecosystem science objectives and indicators.
- Another idea is to then ID what is missing? Are there quantitative or narrative biological objectives and indicators that we haven't developed that would support identification of Delta outflows that support all beneficial uses.

Afternoon Session

- Biological Objectives and Indicators continued ...
 - Another presentation idea: Identify potential biological objectives and indicators to use in the regulatory framework, implementation, monitoring, and/or adaptive management programs.
 - Another idea: provide a presentation on biological objectives and indicators at all trophic levels and for some habitat types (salinity gradient – marine, estuarine, fresh). What are good indicators/objectives at each trophic level for this system?

Panel Discussion with Presenters (1 hr approx.)

Public comment

Day 2

Morning Session

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- Ecosystem Response to Flow I put some ideas for presentation topics below
 - Community composition: can we use community composition with individual species abundance and distribution data as metrics of ecosystem response.
 - Can we use an adaptive management program to identify the flows needed to produce an ecosystem response? What is the range of Delta outflows needed to produce an ecosystem response?

Afternoon Session

- Ecosystem Response to Flow, ctd.
- Flow Measurement and Management

Panel Discussion with Presenters (1 hr approx.)

Public comment

Day 3

Morning

- Closed Session: Panel Deliberation

Afternoon

- Preliminary Report of Panel
- Public Comment

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